

**IN THE UNITED STATES DISTRICT COURT  
FOR THE WESTERN DISTRICT OF TEXAS  
WACO DIVISION**

WSOU INVESTMENTS, LLC d/b/a  
BRAZOS LICENSING AND  
DEVELOPMENT,

Plaintiff,

V.

DELL TECHNOLOGIES INC., DELL  
INC., EMC CORPORATION, AND  
VMWARE, INC.

Defendants.

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NO. 6:20-cv-481-ADA

## JURY TRIAL DEMANDED

# FIRST AMENDED COMPLAINT FOR PATENT INFRINGEMENT

Plaintiff WSOU Investments, LLC d/b/a Brazos Licensing and Development (“Brazos” or “Plaintiff”), by and through its attorneys, files this First Amended Complaint (“Amended Complaint” or “Complaint”) for Patent Infringement against Dell Technologies Inc., Dell Inc., EMC Corporation, and VMWare, Inc. (collectively, “Defendants”) and alleges:

## NATURE OF THE ACTION

1. This is a civil action for patent infringement arising under the Patent Laws of the United States, 35 U.S.C. §§ 1, et seq., including §§ 271, 281, 284, and 285.

## THE PARTIES

2. Brazos is a limited liability corporation organized and existing under the laws of Delaware, with its principal place of business at 605 Austin Avenue, Suite 6, Waco, Texas 76701.

3. On information and belief, defendant Dell Technologies Inc. (“Dell”) is a Delaware corporation with a principal place of business at One Dell Way, Round Rock, Texas 78682.

4. On information and belief, defendant Dell Inc. is a Delaware corporation with a principal place of business at One Dell Way, Round Rock, Texas 78682. Dell Inc. is wholly owned by its corporate parent, Dell.

5. On information and belief, defendant EMC Corporation (“EMC”) is a Massachusetts corporation with a principal place of business at One Dell Way, Round Rock, Texas 78682. EMC Corporation is wholly owned by its corporate parent, Dell Technologies Inc.

6. Upon information and belief, VMware, Inc. (“VMWare”) is a Delaware corporation with two established places of business in this District, including two in Austin, Texas with over 700 employees.

7. Upon information and belief, VMWare was acquired by EMC in 2004 and conducted an initial public offering of Class A common stock in August 2007. On or around September 2016, Dell acquired by EMC. As a result, EMC became a wholly-owned subsidiary of Dell, and VMWare became an indirectly-held, majority-owned subsidiary of Dell. Under the rules of the New York Stock Exchange, VMWare is a controlled company. As of January 31, 2020, Dell controlled approximately 80.9% of VMWare’s outstanding common stock, including 31 million shares of its Class A common stock and all of its Class B common stock.

**COUNT ONE - INFRINGEMENT OF**  
**U.S. PATENT NO. 9,164,800**

8. Brazos re-alleges and incorporates by reference the preceding paragraphs of this Complaint.

9. On October 20, 2015, the United States Patent and Trademark Office duly and legally issued U.S. Patent No. 9,164,800 (“the ‘800 Patent”), entitled “Optimizing Latencies in

Cloud Systems by Intelligent Compute Node Placement.” A true and correct copy of the ‘800 Patent is attached as Exhibit A to this Complaint.

10. Brazos is the owner of all rights, title, and interest in and to the ‘800 Patent, including the right to assert all causes of action arising under the ‘800 Patent and the right to any remedies for the infringement of the ‘800 Patent.

11. Defendants make, use, sell, offer for sale, import, and/or distribute in the United States, including within this judicial district, products such as, but not limited to, cloud-related solutions, including but not limited to, devices incorporating VMware’s VeloCloud solutions and vSphere software, such as Dell’s PowerEdge servers and VxRail appliances (collectively, the “Accused Products”).



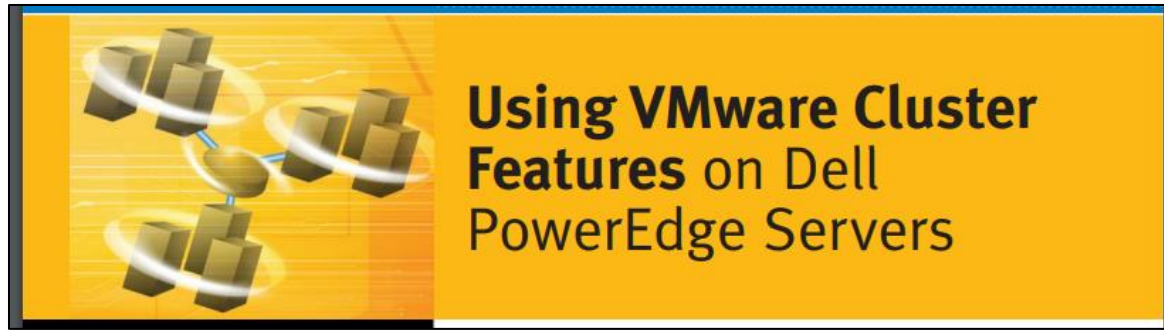
The advertisement banner features a dark blue header with white text and icons. The main headline reads 'Get what it takes to build your VMware cloud.' followed by a sub-headline 'Accelerate your timeframe for success with a complete VMware cloud solution from Dell.' and a 'Contact Dell >' link. To the right is a large white cloud icon containing a server rack. Below the header, the left section is titled 'Benefit from an experienced cloud partnership' and contains a paragraph about the success of cloud initiatives. The right section is a blue box titled 'Contact a Dell expert' with the text 'Transform your data center from infrastructure-centric to service-centric.' and a 'Contact Now >' link.

**Get what it takes to build your VMware cloud.**  
Accelerate your timeframe for success with a complete VMware cloud solution from Dell.  
[Contact Dell >](#)

**Benefit from an experienced cloud partnership**  
The success of your cloud initiatives may ride on the experience of your cloud solution provider. Choose a partner that provides mature, integrated joint-solutions, including VMware technology and Dell servers, storage, networking, software and services.

**Contact a Dell expert**  
Transform your data center from infrastructure-centric to service-centric.  
[Contact Now >](#)

<https://www.dell.com/learn/us/en/15/solutions/vmware-vcloud>



<https://www.dell.com/downloads/global/power/ps3q07-20070562-hanson.pdf>

**Simplify your journey to the hybrid cloud.**

Together, Dell EMC and VMware accelerate digital business in a multi-cloud world. Building on our solid partnership, Dell EMC PowerEdge will offer the latest versions of VMware vSphere®, VMware vSAN™ and VMware Cloud Foundation once available. Learn more about VMware's recent announcements [here](#).

<https://www.delltechnologies.com/en-us/solutions/vmware/servers-for-vmware.htm>

The two-socket server is an ideal base for building V13 clusters as there are not as many "eggs in one basket". However, it would be best if there were a mechanism to restart the virtual machines from the failed hosts on remaining hosts in the VMware farm. Using VMware's HA (High Availability) and DRS (Distributed Resource Scheduler) it is possible to obtain this functionality.

VMware HA allows virtual machines on failed ESX server hosts to restart on surviving ESX hosts. The DRS solution uses system algorithms and user created rules to determine the optimal placement of the virtual machines.

[https://www.dell.com/downloads/global/vectors/dell\\_and\\_vmware\\_drs\\_ha\\_solutions.pdf](https://www.dell.com/downloads/global/vectors/dell_and_vmware_drs_ha_solutions.pdf)

### 3 VxRail appliances

VxRail is jointly developed by Dell EMC and VMware and is the only fully integrated, preconfigured, and tested HCI appliance that is powered by VMware Virtual SAN (vSAN). VxRail is managed through the vCenter Server interface. It provides a familiar vSphere experience and enables streamlined deployment and the ability to extend the use of existing IT tools and processes.

VxRail appliances are managed using VxRail HCI System software for hardware and appliance maintenance tasks as well as software life cycle management. VxRail HCI System Software incorporates Secure Remote Services (SRS) and other serviceability capabilities. VxRail appliances are discoverable and visible in Dell EMC Vision™ Intelligent Operations.

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**Note:** For day-to-day VM management, you manage the VMware stack on the VxRail appliance directly through vCenter server.

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The VxRail software bundle is preloaded and licensed onto hardware and consists of the following components (specific software versions not shown):

- VxRail HCI System Software
- VMware vCenter Server
- VMware vRealize Log Insight™
- VMware vSAN™
- Dell Secure Remote Services (SRS)/VE

Also preloaded is VMware vSphere®; however, licenses are required and can be purchased through Dell EMC, VMware, or your preferred VMware reseller partner.

<https://www.dell EMC.com/resources/en-us/asset/technical-guides-support-information/products/converged-infrastructure/vxrail-vcenter-server-planning-guide.pdf>

12. The Accused Products allow administration of hybrid cloud environments and provide resource management.

VMware vSphere is VMware's virtualization platform, which transforms data centers into aggregated computing infrastructures that include CPU, storage, and networking resources. vSphere manages these infrastructures as a unified operating environment, and provides you with the tools to administer the data centers that participate in that environment.

<https://docs.vmware.com/en/VMware-vSphere/index.html>

## Introduction

VMware vSphere® 6.7 delivers key capabilities to enable IT organizations to address the following notable trends that are putting new demands on their IT infrastructure:

- Explosive growth in quantity and variety of applications, from business-critical applications to new intelligent workloads
- Rapid increase in hybrid cloud environments and use cases
- Global expansion of on-premises data centers, including at the edge
- Heightened importance of security relating to infrastructure and applications

The following sections discuss some of the key capabilities in vSphere 6.7 that address the aforementioned trends.

<https://www.vmware.com/content/dam/digitalmarketing/vmware/en/pdf/products/vsphere/vmware-whats-new-in-vsphere-whitepaper.pdf>

vSphere Resource Management describes resource management for VMware® ESXi and vCenter® Server environments.

This documentation focuses on the following topics.

- Resource allocation and resource management concepts
- Virtual machine attributes and admission control
- Resource pools and how to manage them
- Clusters, vSphere® Distributed Resource Scheduler (DRS), vSphere Distributed Power Management (DPM), and how to work with them
- Datastore clusters, Storage DRS, Storage I/O Control, and how to work with them
- Advanced resource management options
- Performance considerations

<https://docs.vmware.com/en/VMware-vSphere/6.7/vsphere-esxi-vcenter-server-67-resource-management-guide.pdf>

13. The Accused Products employ Distributed Resources Scheduler (DRS) solutions to manage workloads and group hosts to resource clusters in order to segregate the computing needs of different business units and balance workloads.

### Enable VMware DRS to Manage Workloads

Group VMware ESXi hosts into resource clusters to segregate the computing needs of different business units. VMware vSphere clusters allow you to:

- Provide highly available resources to your workloads.
- Balance workloads for optimal performance.
- Scale and manage computing resources without service disruption.

<https://www.vmware.com/in/products/vsphere/drs-dpm.html>

14. The Accused Products allocate I/O resources to virtual machines (VMs) performing computing based on importance by assigning a relative number of shares to the virtual machines. A storage DRS solution in the Accused Products can provide placement of VMs and VM disks (VMDKs) for data storage, for example.

### Set Storage I/O Control Resource Shares and Limits

Allocate storage I/O resources to virtual machines based on importance by assigning a relative amount of shares to the virtual machine.

<https://docs.vmware.com/en/VMware-vSphere/6.7/vsphere-esxi-vcenter-server-67-resource-management-guide.pdf>

15. The Accused Products uses clusters to manage the resources. In vSphere clusters, vSphere High Availability (HA) and vSphere Distributed Resources Scheduler (DRS) solutions



are also enabled.

## Create a Cluster

A cluster is a group of hosts. When a host is added to a cluster, the host's resources become part of the cluster's resources. The cluster manages the resources of all hosts within it. Clusters enable the vSphere High Availability (HA) and vSphere Distributed Resource Scheduler (DRS) solutions.

<https://docs.vmware.com/en/VMware-vSphere/6.7/vsphere-esxi-vcenter-server-67-resource-management-guide.pdf>

16. A DRS cluster created by a vSphere Client may be a collection of hosts and associated virtual machines with shared resources and a shared management interface. A vSphere Client can add multiple hosts to a cluster. A Datastore Cluster is a group of datastores. A vCenter server can manage all these resources.

A cluster is a group of hosts. You can create a cluster using vSphere Client, and add multiple hosts to the cluster. vCenter Server manages these hosts' resources jointly: the cluster owns all of the CPU and memory of all hosts. You can enable the cluster for joint load balancing or failover. See [Chapter 11 Creating a DRS Cluster](#) for more information.

A datastore cluster is a group of datastores. Like DRS clusters, you can create a datastore cluster using the vSphere Client, and add multiple datastores to the cluster. vCenter Server manages the datastore resources jointly. You can enable Storage DRS to balance I/O load and space utilization. See [Chapter 13 Creating a Datastore Cluster](#).

<https://docs.vmware.com/en/VMware-vSphere/6.7/vsphere-esxi-vcenter-server-67-resource-management-guide.pdf>

17. A vSphere cluster contains VMs, datastores, and links between them.

Storage DRS allows you to manage the aggregated resources of a datastore cluster. When Storage DRS is enabled, it provides recommendations for virtual machine disk placement and migration to balance space and I/O resources across the datastores in the datastore cluster.

<https://docs.vmware.com/en/VMware-vSphere/6.7/vsphere-esxi-vcenter-server-67-resource-management-guide.pdf>



18. Storage DRS in the Accused Products allows users to manage the aggregated resources in a datastore cluster to achieve objectives, including space load balancing, I/O load balancing, and placement for virtual disks.

When you enable Storage DRS, you enable the following functions.

- Space load balancing among datastores within a datastore cluster.
- I/O load balancing among datastores within a datastore cluster.
- Initial placement for virtual disks based on space and I/O workload.

<https://docs.vmware.com/en/VMware-vSphere/6.7/vsphere-esxi-vcenter-server-67-resource-management-guide.pdf>

Virtual machine (VM) provisioning operations such as create, clone, and relocate involve the placement of storage resources. **Storage DRS** (sometimes seen as “SDRS”) is the resource management component in vSphere responsible for optimal storage placement and load balancing recommendations in the datastore cluster.

A key contributor to VM provisioning times in Storage DRS-enabled environments is the time it takes (latency) to receive placement recommendations for the VM disks (VMDKs). This latency particularly comes into play when multiple VM provisioning requests are issued concurrently.

Several changes were made in vSphere 6.7 to improve the time to generate placement recommendations for provisioning operations. Specifically, the level of parallelism was improved for the case where there are no storage reservations for VMDKs. This resulted in significant improvements in recommendation times when there are concurrent provisioning requests.

<https://blogs.vmware.com/performance/2018/11/sdrs-performance-vsphere67.html>

19. Storage DRS in the Accused Products place VMs and VMDKs with reduced latency. Dell claims that significant improvement in the latency is observed in the new version of vSphere, i.e., VMware vSphere 6.7.

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<https://blogs.vmware.com/performance/2018/11/sdrs-performance-vsphere67.html>

20. In the Accused Products, the Storage DRS works in conjunction with the cluster DRS based on a variety of metrics, including device latency and prioritizations, to avoid over provisioning storage and other resources. As an example of an assignment objective, the Storage DRS allocates resources (*e.g.*, the placement for VMs and VMDKs) using a variety of metrics (*e.g.*, latency), which may each be controlled and/or monitored. In addition, resources can be adjusted and can be set (*e.g.*, as per virtual machines) through application of assignment algorithms (*e.g.*, VMotion).

#### Important VM Level Metrics

- CPU active (run, ready and peak)
- Memory overhead (growth rate)
- Active, Consumed and Idle Memory
- Shared memory pages, balloon, swapped

The most important metric to determine a virtual machines' CPU demand is CPU active. CPU active is a collection of multiple stats all morphed into a single stat. One important statistic that is a part of CPU active is CPU ready time. DRS takes ready time into account to understand the demand of the virtual machine. On top of this, DRS considers both peak active as average active in the past five minutes.

The most important metric to determine a virtual machines' memory demand is the active memory and the consumed memory. Another metric that is considered is the page sharing between multiple virtual machines running on the same host, whenever DRS makes a decision it knows about how pages are being shared between their respective virtual machines on that particular host. If a virtual machine is moved away from this host, DRS takes into account the loss of page sharing. This is one of the main reasons, why DRS prefers to move medium-sized workloads over larger sized workloads. Moving a virtual machine to a destination could force the ESXi host to reclaim memory to make room for the in-transit virtual machine. But there is one metric that supersedes all metrics listed above, and that is virtual machine happiness.

<https://vspherecentral.vmware.com/t/resource-management-and-availability/vsphere-resources-and-availability/drs-decision-engine/>

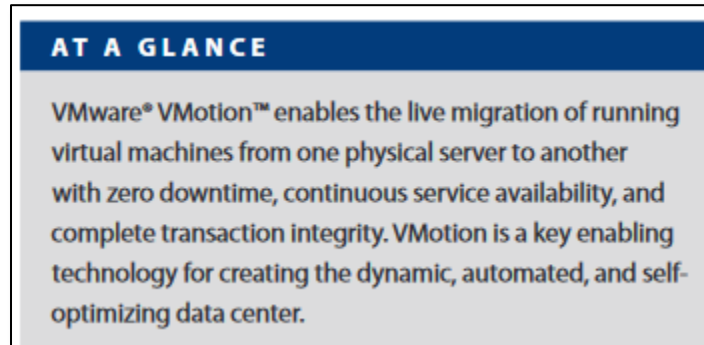
vSphere Storage I/O Control allows cluster-wide storage I/O prioritization, which allows better workload consolidation and helps reduce extra costs associated with over provisioning.

Storage I/O Control extends the constructs of shares and limits to handle storage I/O resources. You can control the amount of storage I/O that is allocated to virtual machines during periods of I/O congestion, which ensures that more important virtual machines get preference over less important virtual machines for I/O resource allocation.

When you enable Storage I/O Control on a datastore, ESXi begins to monitor the device latency that hosts observe when communicating with that datastore. When device latency exceeds a threshold, the datastore is considered to be congested and each virtual machine that accesses that datastore is allocated I/O resources in proportion to their shares. You set shares per virtual machine. You can adjust the number for each based on need.

<https://docs.vmware.com/en/VMware-vSphere/6.7/vsphere-esxi-vcenter-server-67-resource-management-guide.pdf>

21. Based on the metrics and prioritizations, algorithms applied in the Accused Products (*e.g.*, VMotion) can create assignments to migrate and optimize resources.



[https://www.vmware.com/pdf/vmotion\\_datasheet.pdf](https://www.vmware.com/pdf/vmotion_datasheet.pdf)

22. In view of preceding paragraphs, each and every element of at least claim 1 of the ‘800 Patent is found in the Accused Products.

23. Upon information and belief, each and every element of at least claim 1 of the patent-in-suit is performed or practiced by Defendants at least through Defendants’ own use and configuration of its own Accused Products, and/or through Defendants’ own testing and configuration of its own Accused Products, and/or through Defendants’ providing services for its Accused Products, including but not limited to providing installation, deployment, support and configuration of its Accused Products.

24. Defendants continue to directly infringe at least one claim of the ‘800 Patent, literally or under the doctrine of equivalents, by making, using, selling, offering for sale, importing, and/or distributing the Accused Products in the United States, including within this judicial district, without the authority of Brazos.

25. In May 2020, Brazos filed a suit against Defendants asserting infringement of the same patent and by the same accused products that are asserted in this case. Brazos dismissed the prior suit before filing this suit. As a result of the prior suit, Defendants had notice and actual

or constructive knowledge of their infringement of the patent-in-suit since at least May 2020, before the filing of this case. Further, Defendants had knowledge of their infringement of the patent-in-suit before the filing of this Amended Complaint.<sup>1</sup>

26. Since at least May 2020, through its actions, Defendants have actively induced product makers, distributors, retailers, and/or end users of the Accused Products to infringe the ‘800 Patent throughout the United States, including within this judicial district, by, among other things, advertising and promoting the use of the Accused Products in various websites, including providing and disseminating product descriptions, operating manuals, and other instructions on how to implement and configure the Accused Products. Examples of such advertising, promoting, and/or instructing include the documents at:

- <https://www.dell.com/learn/us/en/15/solutions/vmware-vcloud>

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<sup>1</sup> Dell filed a motion to dismiss that is mooted by this amended complaint. Dell’s motion cites a WDTX case (which relies authority from the District of Delaware) for the proposition that knowledge of a plaintiff’s patent after the lawsuit was filed is insufficient to plead the requisite knowledge for indirect infringement. *See Aguirre v. Powerchute Sports, LLC*, No. SA-10-CV-0702 XR, 2011 WL 2471299, at \*3 (W.D. Tex. June 17, 2011) (citing *Xpoint Techs. v. Microsoft Corp.*, 730 F.Supp.2d 349 (D. Del. 2010)). Several Delaware courts have since rejected this rule because there is no statutory basis to support it and because there is no purpose served by the formality of requiring the plaintiff to file an amended complaint in order to be allowed to assert knowledge of the patents during the period following the filing of the original complaint. *See Walker Digital, LLC v. Facebook, Inc.*, 852 F. Supp. 2d 559, 566 (D. Del. 2012) (“The court acknowledges that this result is inconsistent with its prior decisions in *Xpoint Techs. v. Microsoft Corp.*, 730 F.Supp.2d 349 (D.Del.2010), and *EON Corp. IP Holdings LLC v. FLO TV Inc.*, 802 F.Supp.2d 527 (D. Del. 2011). Given the ease of amendment, the limitation of damages to post-knowledge conduct, and in the interests of judicial economy, the court finds that the better reasoning is to allow a complaint that satisfies Rule 8 to proceed to discovery rather than dismissing it for lack of pre-filing knowledge when, by the time the motion to dismiss has been filed, defendant in fact has the requisite knowledge as pled by plaintiff.”); *see also IOENGINE, LLC v. PayPal Holdings, Inc.*, CV 18-452-WCB, 2019 WL 330515, at \*4 (D. Del. Jan. 25, 2019) (“The Court sees no purpose that would be served by the formality of requiring IOENGINE to file an amended complaint in order to be allowed to assert knowledge of the patents during the period following the filing of the original complaint.”).

- <https://www.dell.com/downloads/global/power/ps3q07-20070562-hanson.pdf>
- <https://www.delltechnologies.com/en-us/solutions/vmware/servers-for-vmware.htm>
- [https://www.dell.com/downloads/global/vectors/dell\\_and\\_vmware\\_drs\\_ha\\_solutions.pdf](https://www.dell.com/downloads/global/vectors/dell_and_vmware_drs_ha_solutions.pdf)
- <https://www.dell.com/support/article/en-uk/sln314727/dell-s-customization-of-vmware-esxi-and-its-advantages?lang=en>
- <https://www.dell.com/en-us/work/shop/povw/vmware-vsphere>
- <https://docs.vmware.com/en/VMware-vSphere/index.html>
- <https://www.vmware.com/content/dam/digitalmarketing/vmware/en/pdf/products/vsphere/vmware-whats-new-in-vsphere-whitepaper.pdf>
- <https://docs.vmware.com/en/VMware-vSphere/6.7/vsphere-esxi-vcenter-server-67-resource-management-guide.pdf>
- <https://www.vmware.com/in/products/vsphere/drs-dpm.html>
- <https://blogs.vmware.com/performance/2018/11/sdrs-performance-vsphere67.html>
- [https://www.vmware.com/pdf/vmotion\\_datasheet.pdf](https://www.vmware.com/pdf/vmotion_datasheet.pdf)
- <https://vspherecentral.vmware.com/t/vsphere-resources-and-availability/drs-decision-engine/>

27. Since at least May 2020, through its actions, Defendants have contributed to the infringement of the ‘800 Patent by having others sell, offer for sale, or use the Accused Products throughout the United States, including within this judicial district, with knowledge that the Accused Products infringe the ‘800 Patent. The Accused Products are especially made or adapted for infringing the ‘800 Patent and have no substantial non-infringing use. For example, in view of the preceding paragraphs, the Accused Products contain functionality which is material to at least one claim of the ‘800 Patent.

**JURY DEMAND**

Brazos hereby demands a jury on all issues so triable.

**REQUEST FOR RELIEF**

WHEREFORE, Brazos respectfully requests that the Court:

- (A) Enter judgment that Defendants infringe one or more claims of the '800 Patent literally and/or under the doctrine of equivalents;
- (B) Enter judgment that Defendants have induced infringement and continue to induce infringement of one or more claims of the '800 Patent;
- (C) Enter judgment that Defendants have contributed to and continue to contribute to the infringement of one or more claims of the '800 Patent;
- (D) Award Brazos damages, to be paid by Defendants in an amount adequate to compensate Brazos for such damages, together with pre-judgment and post-judgment interest for the infringement by Defendants of the '800 Patent through the date such judgment is entered in accordance with 35 U.S.C. § 284, and increase such award by up to three times the amount found or assessed in accordance with 35 U.S.C. § 284;
- (E) Declare this case exceptional pursuant to 35 U.S.C. § 285; and
- (F) Award Brazos its costs, disbursements, attorneys' fees, and such further and additional relief as is deemed appropriate by this Court.



Dated: October 19, 2020

Respectfully submitted,

/s/ James L. Etheridge

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